

Open-Ended Questions
Math for Standards

Name _____

Date _____

Here are three open-ended questions. For each question, you must do the following:

- Show all work
- Explain what you did
- Explain you did what you did (Why is it the correct thing to do?)
- Write out the answer to your question

You will see questions of this type on the PSSA, and these questions could be the difference between passing and failing. If you do not pass the PSSA, you will have to retake the test next year and take a remediation math class before school, after school, or during a study hall.

1. For a school Project, Matt Mitarnowski recorded how much TV he watched in one weekend and what kinds of programs he watched. Here are his findings:

Saturday 9:30-10:30 AM; 1:00-3:30 PM; 8:00-10:00 PM

Sunday 1:00-2:30 PM; 8:00-10:00 PM

Matt watched sports programs for one half of the time. He watched movies for one third of the time. He watched cartoons with Fuzzy Jeff the rest of the time. How many minutes did Matt watch cartoons?

2. Each American throws away about 60 pounds of plastic packaging each year. At this rate, about how many years will it take one American to throw away a ton of plastic? (One ton = 2000 lbs.)

3. Three watermelons and two cantaloupes weigh 32 pounds. Four watermelons and three cantaloupes weigh 44 pounds. All watermelons weigh the same and all cantaloupes weigh the same. What is the weight of two watermelons and one cantaloupe?